| CSCI 361: Reading Assignment # 13 Your Name: | |
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| Due: Thursday, Nov 14, in class | |
| Assigned reading for this lecture: • Sipser Third Edition 7.3 and 7.4 (NP and NP Completeness) | |
| Review the class NP as well as NP completeness reductions in the book. Skip the proof of the Cook-Levin Theorem (Theorem 7.37) for now, we will cover it next time. Read the reduction from 3SAT to Clique, (Theorem 7.32) and 3SAT to Vertex-Cover (Theorem 7.44). | |
| Questions: | |
| Consider the reduction from 3SAT to Clique (Page . Given a 3SAT instance with k clauses, how many vertices are in the constructed graph G? | |
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| 2. Consider the reduction from 3SAT to Clique (Page 302). Given a 3SAT instance with <i>k</i> clauses, how many edges are in the constructed graph <i>G</i> ? | |